```
Connecting via Winsock to STN



Welcome to STN International!  Enter x:x

LOGINID:SSPTASXJ1617

PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 11:18:56 ON 27 MAR 2009
FILE 'CAPLUS' ENTERED AT 11:18:56 ON 27 MAR 2009
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COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                                 4.24      19.92

=> file reg
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                                 4.24      19.92

FILE 'REGISTRY' ENTERED AT 11:19:10 ON 27 MAR 2009
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STRUCTURE FILE UPDATES:   25 MAR 2009  HIGHEST RN 1127021-37-7
DICTIONARY FILE UPDATES:  25 MAR 2009  HIGHEST RN 1127021-37-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\Stnexp\Queries\10575683.str
```
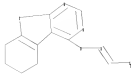
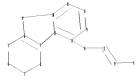





chain nodes :
16 17 18 19
ring nodes :
3 4 5 6 7 8 9 10 11 12 13 14 15
chain bonds :
15-16 16-17 17-18 18-19
ring bonds :
3-4 3-8 4-5 5-6 6-7 6-9 7-8 7-11 9-10 10-11 10-12 11-15 12-13 13-14
14-15
exact/norm bonds :
3-4 3-8 4-5 5-6 6-7 6-9 7-8 7-11 9-10 15-16 16-17 17-18 18-19
normalized bonds :
10-11 10-12 11-15 12-13 13-14 14-15

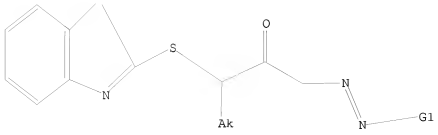
G1:Ak,Hy,Cb

G2:Ak,H

Match level :
3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom
13:Atom 14:Atom 15:Atom 16:CLASS 17:CLASS 18:CLASS 19:CLASS

L7 STRUCTURE UPLOADED

=> d 17
L7 HAS NO ANSWERS
L7 STR



G1 Ak,Hy,Cb

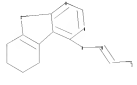
Structure attributes must be viewed using STN Express query preparation.

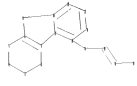
=> s l7 full
FULL SEARCH INITIATED 11:19:33 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 89 TO ITERATE

100.0% PROCESSED 89 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

L8 0 SEA SSS FUL L7

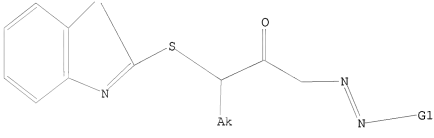
=>
Uploading C:\Program Files\Stnexp\Queries\10575683.str



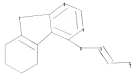


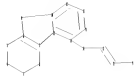
chain nodes :
16 17 18 19
ring nodes :
3 4 5 6 7 8 9 10 11 12 13 14 15

```
chain bonds :
15-16  16-17  17-18  18-19
ring bonds :
3-4  3-8  4-5  5-6  6-7  6-9  7-8  7-11  9-10  10-11  10-12  11-15  12-13  13-14
14-15
exact/norm bonds :
3-4  3-8  4-5  5-6  6-7  6-9  7-8  7-11  9-10  15-16  16-17  17-18  18-19
normalized bonds :
10-11  10-12  11-15  12-13  13-14  14-15


G1:Ak,Hy,Cb

G2:Ak,H

Match level :
3:Atom  4:Atom  5:Atom  6:Atom  7:Atom  8:Atom  9:Atom  10:Atom  11:Atom  12:Atom
13:Atom  14:Atom  15:Atom  16:CLASS  17:CLASS  18:CLASS  19:CLASS



L9      STRUCTURE UPLOADED

=> d l8
L8 HAS NO ANSWERS
L7                STR
```

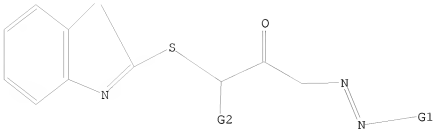



```
G1 Ak,Hy,Cb


Structure attributes must be viewed using STN Express query preparation.
L8             0 SEA FILE=REGISTRY SSS FUL L7


=>
Uploading C:\Program Files\Stnexp\Queries\10575683.str
```





```
chain nodes :
16  17  18  19
ring nodes :
3  4  5  6  7  8  9  10  11  12  13  14  15
chain bonds :
15-16  16-17  17-18  18-19
ring bonds :
3-4  3-8  4-5  5-6  6-7  6-9  7-8  7-11  9-10  10-11  10-12  11-15  12-13  13-14
14-15
exact/norm bonds :
3-4  3-8  4-5  5-6  6-7  6-9  7-8  7-11  9-10  15-16  16-17  17-18  18-19
normalized bonds :
10-11  10-12  11-15  12-13  13-14  14-15


G1:Ak,Hy,Cb

G2:Ak,H

Match level :
3:Atom  4:Atom  5:Atom  6:Atom  7:Atom  8:Atom  9:Atom  10:Atom  11:Atom  12:Atom
13:Atom  14:Atom  15:Atom  16:CLASS  17:CLASS  18:CLASS  19:CLASS



L10     STRUCTURE UPLOADED

=> d l10
L10 HAS NO ANSWERS
L10             STR
```

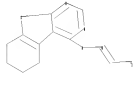


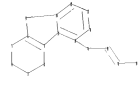
G1 Ak,Hy,Cb

G2 Ak,H

Structure attributes must be viewed using STN Express query preparation.

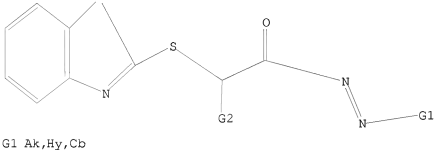
```
=> s l10 full
FULL SEARCH INITIATED 11:21:58 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -       89 TO ITERATE

100.0% PROCESSED       89 ITERATIONS                                 0 ANSWERS
SEARCH TIME: 00.00.01

L11            0 SEA SSS FUL L10

=>
Uploading C:\Program Files\Stnexp\Queries\10575683.str
```



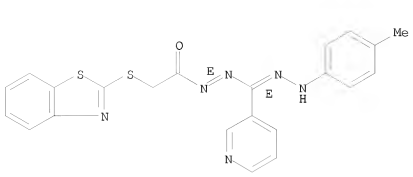


```
chain nodes :
16  17  18  19
ring nodes :
3  4  5  6  7  8  9  10  11  12  13  14  15
```

```
chain bonds :
15-16  16-17  17-18  18-19
ring bonds :
3-4  3-8  4-5  5-6  6-7  6-9  7-8  7-11  9-10  10-11  10-12  11-15  12-13  13-14
14-15
exact/norm bonds :
3-4  3-8  4-5  5-6  6-7  6-9  7-8  7-11  9-10  15-16  16-17  17-18  18-19
normalized bonds :
10-11  10-12  11-15  12-13  13-14  14-15


G1:Ak,Hy,Cb

G2:Ak,H

Match level :
3:Atom  4:Atom  5:Atom  6:Atom  7:Atom  8:Atom  9:Atom  10:Atom  11:Atom  12:Atom
13:Atom  14:Atom  15:Atom  16:CLASS  17:CLASS  18:CLASS  19:CLASS



L12     STRUCTURE UPLOADED

=> d l12
L12 HAS NO ANSWERS
L12              STR
```




```
G1 Ak,Hy,Cb
G2 Ak,H


Structure attributes must be viewed using STN Express query preparation.


=> s l12 full
FULL SEARCH INITIATED 11:23:11 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -     3030 TO ITERATE

100.0% PROCESSED     3030 ITERATIONS                                  3 ANSWERS
SEARCH TIME: 00.00.01

L13           3 SEA SSS FUL L12

=> d scan

L13  3 ANSWERS   REGISTRY  COPYRIGHT 2009 ACS on STN
IN   Ethanone, 2-(2-benzothiazolylthio)-1-[(1E)-2-[(E)-[2-(4-
     methylphenyl)hydrazinylidene]-3-pyridinylmethyl]diazenyl]-
MF   C22 H18 N6 O S2

Double bond geometry as shown.
```

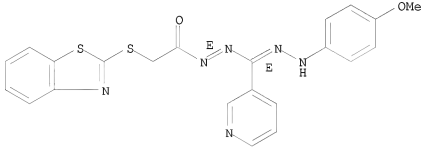


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):3

L13 3 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN Ethanone, 2-(2-benzothiazolylthio)-1-[(1E)-2-[(E)-[2-(4-methoxyphenyl)hydrazinylidene]-3-pyridinylmethyl]diazenyl]-
MF C22 H18 N6 O2 S2

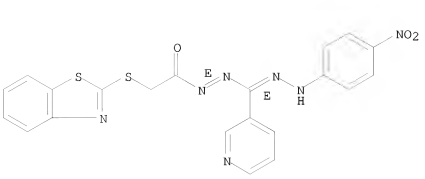
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L13 3 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN Ethanone, 2-(2-benzothiazolylthio)-1-[(1E)-2-[(E)-[2-(4-nitrophenyl)hydrazinylidene]-3-pyridinylmethyl]diazenyl]-
MF C21 H15 N7 O3 S2

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> file caplus
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	559.56	579.48

FILE 'CAPLUS' ENTERED AT 11:23:35 ON 27 MAR 2009
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FILE COVERS 1907 - 27 Mar 2009 VOL 150 ISS 14
FILE LAST UPDATED: 26 Mar 2009 (20090326/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

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http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l13
L14 0 L13

=> file reg
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1.00	580.48

FILE 'REGISTRY' ENTERED AT 11:24:45 ON 27 MAR 2009
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Property values tagged with IC are from the ZIC/VINITI data file
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STRUCTURE FILE UPDATES: 25 MAR 2009 HIGHEST RN 1127021-37-7
DICTIONARY FILE UPDATES: 25 MAR 2009 HIGHEST RN 1127021-37-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

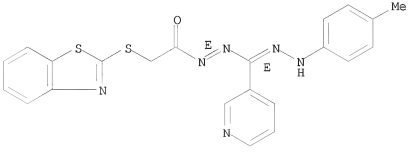
REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=> d l13

L13 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2009 ACS on STN
RN 1027183-58-9 REGISTRY
ED Entered STN: 11 Jun 2008
CN Ethanone, 2-(2-benzothiazolylthio)-1-[(1E)-2-[(E)-[2-(4-
methylphenyl)hydrazinylidene]-3-pyridinylmethyl]diazenyl]- (CA INDEX
NAME)
FS STEREOSEARCH
MF C22 H18 N6 O S2
SR Other Sources
Database: ChemSpider (ChemZoo, Inc.)

Double bond geometry as shown.



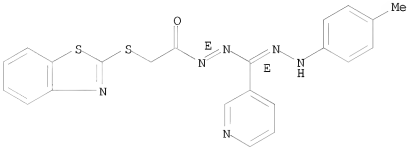
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

=> d l13 1-3

L13 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2009 ACS on STN

RN 1027183-58-9 REGISTRY
ED Entered STN: 11 Jun 2008
CN Ethanone, 2-(2-benzothiazolylthio)-1-[(1E)-2-[(E)-[2-(4-methylphenyl)hydrazinylidene]-3-pyridinylmethyl]diazenyl]- (CA INDEX NAME)
FS STEREOSEARCH
MF C22 H18 N6 O S2
SR Other Sources
Database: ChemSpider (ChemZoo, Inc.)

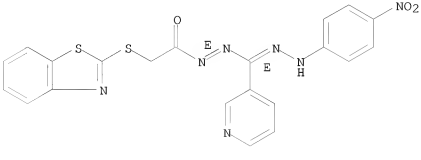
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L13 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2009 ACS on STN
RN 1027065-17-3 REGISTRY
ED Entered STN: 10 Jun 2008
CN Ethanone, 2-(2-benzothiazolylthio)-1-[(1E)-2-[(E)-[2-(4-nitrophenyl)hydrazinylidene]-3-pyridinylmethyl]diazenyl]- (CA INDEX NAME)
FS STEREOSEARCH
MF C21 H15 N7 O3 S2
SR Other Sources
Database: ChemSpider (ChemZoo, Inc.)

Double bond geometry as shown.

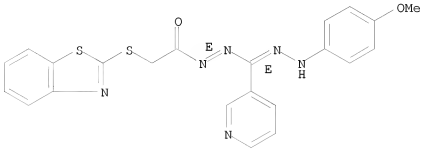


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L13 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2009 ACS on STN
RN 1026372-33-7 REGISTRY
ED Entered STN: 08 Jun 2008
CN Ethanone, 2-(2-benzothiazolylthio)-1-[(1E)-2-[(E)-[2-(4-

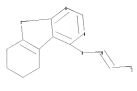
methoxyphenyl)hydrazinylidene]-3-pyridinylmethyl]diazenyl]- (CA INDEX NAME)
FS STEREOSEARCH
MF C22 H18 N6 O2 S2
SR Other Sources
Database: ChemSpider (ChemZoo, Inc.)

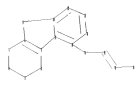
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

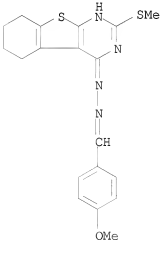
=>
Uploading C:\Program Files\Stnexp\Queries\10575683.str





chain nodes :
16 17 18 19
ring nodes :
3 4 5 6 7 8 9 10 11 12 13 14 15

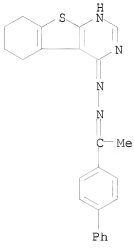
```
chain bonds :
15-16  16-17  17-18  18-19
ring bonds :
3-4  3-8  4-5  5-6  6-7  6-9  7-8  7-11  9-10  10-11  10-12  11-15  12-13  13-14
14-15
exact/norm bonds :
3-4  3-8  4-5  5-6  6-7  6-9  7-8  7-11  9-10  15-16  16-17  17-18  18-19
normalized bonds :
10-11  10-12  11-15  12-13  13-14  14-15


G1:Ak,Hy,Cb

G2:Ak,H

Match level :
3:Atom  4:Atom  5:Atom  6:Atom  7:Atom  8:Atom  9:Atom  10:Atom  11:Atom  12:Atom
13:Atom  14:Atom  15:Atom  16:CLASS  17:CLASS  18:CLASS  19:CLASS



L15     STRUCTURE UPLOADED

=>  s l15 full
FULL SEARCH INITIATED 11:31:40 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -     2677 TO ITERATE

100.0% PROCESSED     2677 ITERATIONS                                 353 ANSWERS
SEARCH TIME: 00.00.01

L16         353 SEA SSS FUL L15

=> d scan

L16  353 ANSWERS   REGISTRY  COPYRIGHT 2009 ACS on STN
IN   Benzaldehyde, 4-methoxy-, 2-[5,6,7,8-tetrahydro-2-
     (methylthio)[1]benzothieno[2,3-d]pyrimidin-4-yl]hydrazone
MF   C19 H20 N4 O S2
```




```
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
```

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L16 353 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN INDEX NAME NOT YET ASSIGNED
MF C24 H22 N4 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	199.36	779.84

FILE 'CAPLUS' ENTERED AT 11:32:08 ON 27 MAR 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE COVERS 1907 - 27 Mar 2009 VOL 150 ISS 14
FILE LAST UPDATED: 26 Mar 2009 (20090326/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

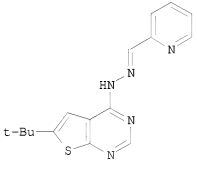
http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l16
L17 23 L16

=> d l17 ibib abs hitstr 1-23

L17 ANSWER 1 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2009:6176 CAPLUS
DOCUMENT NUMBER: 150:260127
TITLE: Discovery of novel thieno[2,3-d]pyrimidin-4-yl hydrazone-based inhibitors of Cyclin D1-CDK4: Synthesis, biological evaluation, and structure-activity relationships
AUTHOR(S): Horiuchi, Takao; Chiba, Jun; Uoto, Kouichi; Soga, Tsunehiko
CORPORATE SOURCE: Medicinal Chemistry Research Laboratory II, Daiichi Sankyo Co. Ltd., 16-13, Kita-Kasai 1-Chome, Edogawa-ku, Tokyo, 134-8630, Japan
SOURCE: Bioorganic & Medicinal Chemistry Letters (2009), 19(2), 305-308
CODEN: BMCLE8; ISSN: 0960-894X
PUBLISHER: Elsevier Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



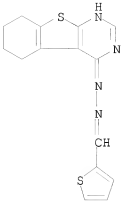
I

AB The synthesis and evaluation of analogs of thieno[2,3-d]pyrimidin-4-yl hydrazones, e.g., I, are described. 2-Pyridinecarboxaldehyde [6-(tert-butyl)thieno[2,3-d]pyrimidine-4-yl]hydrazone derivs. have been identified as cyclin-dependent kinase 4 (CDK4) inhibitors. The potency, selectivity profile, and structure-activity relationship of this series of compds. are discussed.

IT 81154-31-6P
RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation cyclin D1-CDK4 inhibitory and antitumor activities and SAR of thienopyrimidinyl hydrazones using hydrazination of thienopryimidinones and condensation with carbonyl compds. as the key steps)

RN 81154-31-6 CAPLUS
CN 2-Thiophenecarboxaldehyde, 2-(5,6,7,8-tetrahydro[1]benzothieno[2,3-

d]pyrimidin-4-yl)hydrazone (CA INDEX NAME)



REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

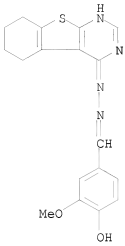
L17 ANSWER 2 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2008:1034502 CAPLUS
DOCUMENT NUMBER: 149:442212
TITLE: The secretion inhibitor Exo2 perturbs trafficking of Shiga toxin between endosomes and the trans-Golgi network
AUTHOR(S): Spooner, Robert A.; Watson, Peter; Smith, Daniel C.; Boal, Frederic; Amessou, Mohammed; Johannes, Ludger; Clarkson, Guy J.; Lord, J. Michael; Stephens, David J.; Roberts, Lynne M.
CORPORATE SOURCE: Department of Biological Sciences, University of Warwick, Coventry, CV4 7AL, UK
SOURCE: Biochemical Journal (2008), 414(3), 471-484
CODEN: BIJOAK; ISSN: 0264-6021
PUBLISHER: Portland Press Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The small-mol. inhibitor Exo2 {4-hydroxy-3-methoxy-(5,6,7,8-tetrahydrol[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazone benzaldehyde} has been reported to disrupt the Golgi apparatus completely and to stimulate Golgi-ER (endoplasmic reticulum) fusion in mammalian cells, akin to the well-characterized fungal toxin BFA (brefeldin A). It has also been reported that Exo2 does not affect the integrity of the TGN (trans-Golgi network), or the direct retrograde trafficking of the glycolipid-binding cholera toxin from the TGN to the ER lumen. The authors have examined the effects of BFA and Exo2, and found that both compds. are indistinguishable in their inhibition of anterograde transport and that both reagents significantly disrupt the morphol. of the TGN in HeLa and in BS-C-1 cells. However, Exo2, unlike BFA, does not induce tubulation and merging of the TGN and endosomal compartments. Furthermore, and in contrast with its effects on cholera toxin, Exo2 significantly perturbs the delivery of Shiga toxin to the ER. Together, these results suggest that the likely target(s) of Exo2 operate at the level of the TGN, the Golgi and a subset of early endosomes, and thus Exo2 provides a more selective tool than BFA for examining membrane trafficking in mammalian cells.

IT 304684-77-3, Exo2
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(the secretion inhibitor Exo2 perturbs trafficking of Shiga toxin between endosomes and the trans-Golgi network)

RN 304684-77-3 CAPLUS

CN Benzaldehyde, 4-hydroxy-3-methoxy-, 2-(5,6,7,8-tetrahydro[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazone (CA INDEX NAME)



REFERENCE COUNT: 54 THERE ARE 54 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

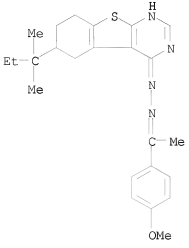
L17 ANSWER 3 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:631491 CAPLUS
DOCUMENT NUMBER: 149:44599
TITLE: Discovery of Novel Small-Molecule Inhibitors of Human Epidermal Growth Factor Receptor-2: Combined Ligand and Target-Based Approach
AUTHOR(S): Gundla, Rambabu; Kazemi, Roza; Sanam, Ramadevi; Muttineni, Ravikumar; Sarma, Jagarlapudi A. R. P.; Dayam, Raveendra; Neamati, Nouri
CORPORATE SOURCE: Department of Pharmacology and Pharmaceutical Sciences, School of Pharmacy, University of Southern California, Los Angeles, CA, USA
SOURCE: Journal of Medicinal Chemistry (2008), 51(12), 3367-3377
CODEN: JMCMAR; ISSN: 0022-2623
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

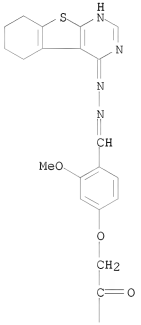
AB Consensus virtual screening models were generated and validated utilizing a set of known human epidermal growth factor receptor-2 (HER2) inhibitors and modeled HER2 active and inactive state structures. The virtual screening models were successfully employed to discover a set of structurally diverse compds. with growth inhibitory activity against HER2-overexpressing SKBR3 breast cancer cell line. A search of a 3D database containing 350000 small-mols. using the consensus models retrieved 531 potential hits. Of the 531 hits, 57 were selected for testing in SKBR3 cells on the basis of structural novelty and desirable drug-like properties. Seven compds. inhibited growth of SKBR3 cells with IC50 values <10 μM. These lead compds. have desirable physicochem. properties and are excellent candidates for further optimization.

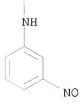
IT 314770-25-7 331963-00-9 1031854-58-6
RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(discovery of novel small-mol. inhibitors of human EGFR-2: combined ligand and target-based approach)

RN 314770-25-7 CAPLUS
CN Ethanone, 1-(4-methoxyphenyl)-, 2-[6-(1,1-dimethylpropyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-d]pyrimidin-4-yl]hydrazone (CA INDEX NAME)

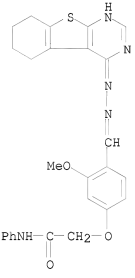


RN 331963-00-9 CAPLUS
CN Acetamide, 2-[3-methoxy-4-[[2-(5,6,7,8-tetrahydro[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazinylidene]methyl]phenoxy]-N-(3-nitrophenyl)- (CA INDEX NAME)



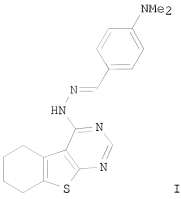


RN 1031854-58-6 CAPLUS
CN Acetamide, 2-[3-methoxy-4-[[2-(5,6,7,8-tetrahydro[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazinylidene]methyl]phenoxy]-N-phenyl- (CA INDEX NAME)



REFERENCE COUNT: 54 THERE ARE 54 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 4 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2008:483184 CAPLUS
DOCUMENT NUMBER: 150:282962
TITLE: Anticonvulsant activity of thieno[2, 3-d]pyrimidines
AUTHOR(S): Bhaskar, V. H.; Kumar, M.; Sangameswaran, B.; Balakrishnan, B. R.
CORPORATE SOURCE: Faculty of Pharmacy, Vinayaka Missions University, Salem, 636 008, India
SOURCE: International Journal of Chemical Sciences (2007), 5(5), 2076-2084
CODEN: IJCSIL; ISSN: 0972-768X
PUBLISHER: Sadguru Publications
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



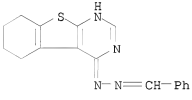
I

AB 2-Amino-4,5,6,7-tetrahydro-1-benzothiophene-3-carboxylic acid was treated with formamide to give 5,6,7,8-tetrahydro[1]benzothieno[2,3-d]pyrimidine-4(3H)-one. This was treated with phosphorus oxychloride to give 4-chloro-5,6,7,8-tetrahydro[1]benzothieno[2,3-d]pyrimidine, which underwent hydrazination to give 4-hydrazino-5,6,7,8-tetrahydro[1]benzothieno[2,3-d]pyrimidine. The resulting hydrazinothienopyrimidine derivative underwent condensation with aromatic aldehydes in ethanol to yield the corresponding Schiff bases, e.g., I. The structures of compds. have been established based on their anal. and spectral data. All the compds. have been screened for anticonvulsant activity. Compound I exhibited good anticonvulsant activity.

IT 81154-29-2P 298207-72-4P 300815-15-0P
315677-57-7P 850720-55-7P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and anticonvulsant activity of thienopyrimidines via cyclocondensation of aminotetrahydrobenzothiophenecarboxylic acid followed by chlorination, hydrazination and condensation with benzaldehydes)

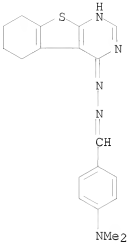
RN 81154-29-2 CAPLUS

CN Benzaldehyde, 2-(5,6,7,8-tetrahydro[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazone (CA INDEX NAME)

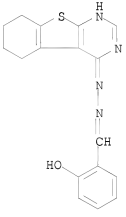


RN 298207-72-4 CAPLUS

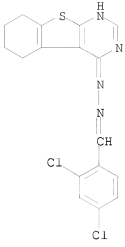
CN Benzaldehyde, 4-(dimethylamino)-, 2-(5,6,7,8-tetrahydro[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazone (CA INDEX NAME)



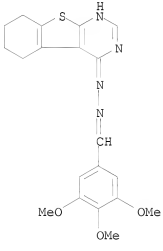
RN 300815-15-0 CAPLUS
CN Benzaldehyde, 2-hydroxy-, 2-(5,6,7,8-tetrahydro[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazone (CA INDEX NAME)



RN 315677-57-7 CAPLUS
CN Benzaldehyde, 2,4-dichloro-, 2-(5,6,7,8-tetrahydro[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazone (CA INDEX NAME)



RN 850720-55-7 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



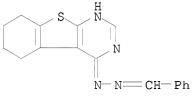
REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 5 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2008:127106 CAPLUS
DOCUMENT NUMBER: 150:20062
TITLE: Synthesis and biological activities of Schiff bases of 5,6,7,8-tetrahydro[1]benzothieno[2,3-d]pyrimidin-4-yl-hydrazones
AUTHOR(S): Bhaskar, V. H.; Gokulan, P. D.
CORPORATE SOURCE: Sri RNS Institute of Pharmaceutical Sciences and Technology, Gwalior, 454 001, India
SOURCE: Oriental Journal of Chemistry (2007), 23(3), 999-1004
CODEN: OJCHEG; ISSN: 0970-020X
PUBLISHER: Oriental Scientific Publishing Co.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 150:20062
AB Et 2-amino-4,5,6,7-tetrahydro-1-benzothiophene-3-carboxylate was treated

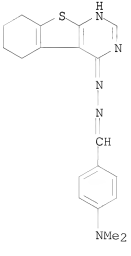
with formamide to get 5,6,7,8-tetrahydro[1]benzothieno[2,3-d]pyrimidin-4(3H)-one. This was treated with phosphorus oxychloride to get 4-chloro-5,6,7,8-tetrahydro[1]benzothieno[2,3-d]pyrimidine. This was refluxed with 80% hydrazine hydrate in butanol yielded 4-hydrazino-5,6,7,8-tetrahydro[1]benzothieno[2,3-d]pyrimidine. This was treated with different aromatic aldehydes in ethanol to yield the corresponding Schiff bases. The structures of compds. were established based on their anal. and spectral data. All the compds. were screened for analgesic, antibacterial, and antifungal activity. Compds. 2,4-dichloro/4-dimethylaminobenzaldehyde-5,6,7,8-tetrahydro[1]benzothieno[2,3-d]pyrimidin-4-yl-hydrazones showed good analgesic activity. Compound 4-dimethylaminobenzaldehyde-5,6,7,8-tetrahydro[1]benzothieno[2,3-d]pyrimidin-4-yl-hydrazone was most active against bacterial strains Staphylococcus aureus and Pseudomonas aeruginosa. Compound 2,4-dichlorobenzaldehyde-5,6,7,8-tetrahydro[1]benzothieno[2,3-d]pyrimidin-4-yl-hydrazone was most active against both the fungal strains Candida albicans and Rhizopus stolonifer.

IT 81154-29-2P 298207-72-4P 300815-15-0P
315677-57-7P 850720-55-7P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation, and analgesic, antibacterial, and antifungal activities of Schiff bases of aryl-tetrahydrobenzothienopyrimidinyl-hydrazones)

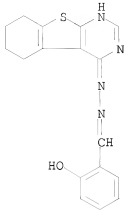
RN 81154-29-2 CAPLUS
CN Benzaldehyde, 2-(5,6,7,8-tetrahydro[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazone (CA INDEX NAME)



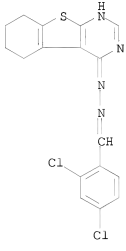
RN 298207-72-4 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, 2-(5,6,7,8-tetrahydro[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazone (CA INDEX NAME)



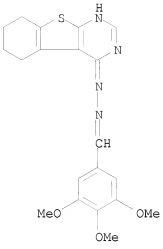
RN 300815-15-0 CAPLUS
CN Benzaldehyde, 2-hydroxy-, 2-(5,6,7,8-tetrahydro[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazone (CA INDEX NAME)



RN 315677-57-7 CAPLUS
CN Benzaldehyde, 2,4-dichloro-, 2-(5,6,7,8-tetrahydro[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazone (CA INDEX NAME)

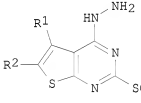


RN 850720-55-7 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 6 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2007:1034373 CAPLUS
DOCUMENT NUMBER: 149:267995
TITLE: Synthesis of some azolothienopyrimidines from 4-chloropyrimidines
AUTHOR(S): Abu-Zied, Kh. M.; Hussein, H. A. R.
CORPORATE SOURCE: Photochemistry Department (Heterocyclic Unit), National Research Centre, Cairo, Egypt
SOURCE: Egyptian Journal of Chemistry (2006), 49(6), 683-697 CODEN: EGJCA3; ISSN: 0449-2285
PUBLISHER: National Information and Documentation Centre
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 149:267995
GI

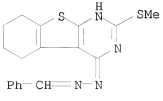


AB 2-Methylthio-5-methyl-6-phenylthieno[2,3-d]pyrimidine-4(3H)-one and 2-methylthio-5,6,7,8-tetrahydrobenzothieno[2,3-d]pyrimidine-4(3H)-one reacted with phosphorus oxychloride to give the corresponding 4-chloropyrimidine derivs. Compound latter compds. reacted with primary aromatic amines, anthranilic acid and hydrazine hydrate to give thienopyrimidine derivs, e.g, I (R1R2 = -(CH2)4- and R1 = CH3, R2 = Ph). Compds. I (R1R2 = -(CH2)4- and R1 = CH3, R2 = Ph) could be converted into the triazolo and tetrazolo pyrimidines derivs. when heated with carbon disulfide or nitrous acid, resp. 4-Aminopyrimidine derivs. could be synthesis by the reduction of tetrazolothieno pyrimidine with zinc dust. On the other hand, compound I (R1R2 = -(CH2)4- and R1 = CH3, R2 = Ph) reacted with aromatic aldehydes to afford the arylhydrazones derivs. Arylhydrazone

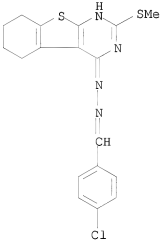
derivs., I (R1R2 = -(CH2)4- and R1 = CH3, R2 = Ph) could be cyclized to thienotriazolopyrimidine derivs. Compound I (R1R2 = -(CH2)4- and R1 = CH3, R2 = Ph) reacted with β-diketone or Et acetoacetate to produce 4-(1-pyrazolyl) and 4-(1-pyrazolinone) derivs., resp. Also, compound I (R1R2 = -(CH2)4- and R1 = CH3, R2 = Ph) reacted with formic acid, tri-Et orthoformate and acetic acid to give, resp.

IT 1046147-69-6P 1046147-70-9P 1046147-71-0P
1046147-82-3P 1046147-88-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of thienopyrimidine derivs. using chlorothienopyrimidinones as intermediates via substitution and/or cyclization as key steps)

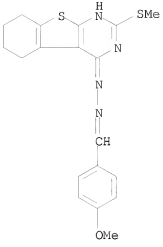
RN 1046147-69-6 CAPLUS
CN Benzaldehyde, 2-[5,6,7,8-tetrahydro-2-(methylthio)[1]benzothieno[2,3-d]pyrimidin-4-yl]hydrazone (CA INDEX NAME)



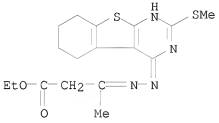
RN 1046147-70-9 CAPLUS
CN Benzaldehyde, 4-chloro-, 2-[5,6,7,8-tetrahydro-2-(methylthio)[1]benzothieno[2,3-d]pyrimidin-4-yl]hydrazone (CA INDEX NAME)



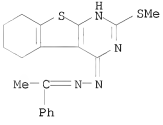
RN 1046147-71-0 CAPLUS
CN Benzaldehyde, 4-methoxy-, 2-[5,6,7,8-tetrahydro-2-(methylthio)[1]benzothieno[2,3-d]pyrimidin-4-yl]hydrazone (CA INDEX NAME)



RN 1046147-82-3 CAPLUS
CN Butanoic acid, 3-[2-[5,6,7,8-tetrahydro-2-(methylthio)[1]benzothieno[2,3-d]pyrimidin-4-yl]hydrazinylidene]-, ethyl ester (CA INDEX NAME)



RN 1046147-88-9 CAPLUS
CN Ethanone, 1-phenyl-, 2-[5,6,7,8-tetrahydro-2-(methylthio)[1]benzothieno[2,3-d]pyrimidin-4-yl]hydrazone (CA INDEX NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 7 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2007:61833 CAPLUS
DOCUMENT NUMBER: 146:156276
TITLE: Celullar cholesterol absorption modifiers
INVENTOR(S): Gardiner, Elisabeth M.; Duron, Wergio G.; Massari, Mark E.; Severance, Daniel L.; Semple, Joseph E.; Smith, Nicholas D.

PATENT ASSIGNEE(S): Kalypsys, Inc., USA
SOURCE: PCT Int. Appl., 76pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007008529	A2	20070118	WO 2006-US26197	20060706
WO 2007008529	A3	20070823		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA

PRIORITY APPLN. INFO.: US 2005-697687P P 20050708
US 2005-727652P P 20051017
US 2006-781972P P 20060313

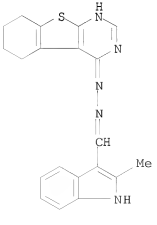
OTHER SOURCE(S): MARPAT 146:156276

AB The present invention relates to compds. and methods useful as inhibitors of cholesterol absorption for the treatment or prevention of cholesterol-related diseases, such as atherosclerosis (Markush structures given). Fifty-two novel aromatic diaza derivs. that prevent cholesterol absorption by inhibition of NPC1L1 were prepared and their antihypercholesterolemic activity is shown.

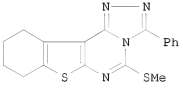
IT 441742-93-4P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(celullar cholesterol absorption modifiers)

RN 441742-93-4 CAPLUS

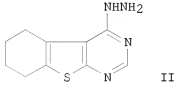
CN 1H-Indole-3-carboxaldehyde, 2-methyl-, 2-(5,6,7,8-tetrahydro[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazone (CA INDEX NAME)



L17 ANSWER 8 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2006:1301763 CAPLUS
DOCUMENT NUMBER: 146:229292
TITLE: Synthesis and antimicrobial evaluation of some new thienopyrimidine derivatives
AUTHOR(S): Bhuiyan, M. Mosharef Hossain; Rahman, Khandker M. Mizanur; Hossain, M. Kamrul; Rahim, Abdur; Hossain, Mohammed Ismail; Abu Naser, Mohammad
CORPORATE SOURCE: Department of Chemistry, University of Chittagong, Chittagong, 4331, Bangladesh
SOURCE: Acta Pharmaceutica (Zagreb, Croatia) (2006), 56(4), 441-450
CODEN: ACPHEE; ISSN: 1330-0075
PUBLISHER: Croatian Pharmaceutical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 146:229292
GI

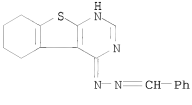


I



II

AB Reaction of heteroarom. o-aminonitrile with Et N-[bis(methylthio)methylene]amino acetate resulted in annelation of a thieno[3,2-e]imidazo[1,2-c]pyrimidine moiety in a one step process. [1,2,4]Triazolo[4,3-c]thieno-[3,2-e]pyrimidine derivs., e.g., I, were prepared by initial treatment of o-aminonitrile with carbon disulfide, followed by methylation with Me iodide and subsequent reaction with benzhydrazide and thiosemicarbazide, resp. Hydrazinothieno[2,3-d]pyrimidine II was prepared by cyclization of heteroarom. o-aminoester with formamide, followed by chlorination and subsequent displacement with hydrazine. Treatment of II with acetylacetone, benzaldehyde and acetic anhydride afforded pyrazolylpyrimidine, benzylidenehydrazonopyrimidine, and triazolopyrimidine derivs., resp. Some of these derivs. exhibited pronounced antimicrobial activity.
IT 81154-29-2P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and antimicrobial activity of thienopyrimidines)
RN 81154-29-2 CAPLUS
CN Benzaldehyde, 2-(5,6,7,8-tetrahydro[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazone (CA INDEX NAME)



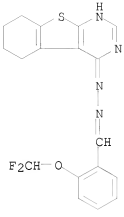
REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 9 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2006:922111 CAPLUS
DOCUMENT NUMBER: 145:306767
TITLE: Thienyl compounds for treating virus-related conditions
INVENTOR(S): Olivo, Paul D.; Buscher, Benjamin A.; Dyall, Julie; Jockel-Balsarotti, Jennifer I.; O'Guin, Andrew K.; Roth, Robert M.; Franklin, Gary W.; Starkey, Gale W.
PATENT ASSIGNEE(S): Apath, LLC, USA
SOURCE: PCT Int. Appl., 343pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006093518	A2	20060908	WO 2005-US22559	20050625
WO 2006093518	A3	20070322		

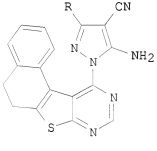
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.: US 2004-582996P P 20040625
OTHER SOURCE(S): MARPAT 145:306767
AB The invention discloses thienyl compds. (particularly (thien-2-yl)amino compds.), pharmaceutical compns. and kits comprising such compds., and uses of such compds. for preparing medicaments and treating virus-related conditions in animals.
IT 303793-31-9
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(thienyl compds. for treating virus-related conditions)
RN 303793-31-9 CAPLUS
CN Benzaldehyde, 2-(difluoromethoxy)-, 2-(5,6,7,8-tetrahydro[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazone (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 10 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2006:146408 CAPLUS
DOCUMENT NUMBER: 145:471480
TITLE: Synthesis of some biologically active pyrazoles and C-nucleosides
AUTHOR(S): El-Sayed Rashad, Aymn; Shamroukh, Ahmed Hussien; Hegab, Mohamed Ibrahim; Awad, Hassan Mohamed
CORPORATE SOURCE: Photochemistry Department, National Research Centre, Cairo, Egypt
SOURCE: Acta Chimica Slovenica (2005), 52(4), 429-434
CODEN: ACSLE7; ISSN: 1318-0207
PUBLISHER: Slovenian Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 145:471480
GI



I

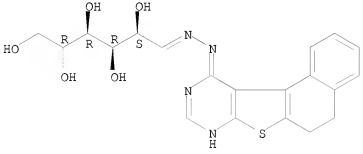
AB (5,6-Dihydronaphtho[1',2':4,5]thieno[2,3-d]pyrimidin-11-yl)-hydrazine was used as a precursor for preparation of some novel 1-(5,6-dihydronaphtho[1',2':4,5]thieno[2,3-d]pyrimidin-11-yl)-pyrazole derivs., e.g., I (R = H or CN). Also, some acyclic and cyclic C-nucleosides were prepared by treating the same starting heterocyclic hydrazine with aldoses. Some of the prepared products showed potent antimicrobial activity.

IT 913654-16-7P 913654-17-8P 913654-18-9P
913654-19-0P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic

preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)
(preparation and antimicrobial activity of thienopyrimidinyl C-nucleosides via condensation of thienopyrimidinyl hydrazine derivative with glucose or ribose followed by intramol. heterocyclization and Dimroth type rearrangement)

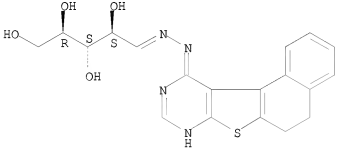
RN 913654-16-7 CAPLUS
CN D-Glucose, (5,6-dihydronaphtho[1',2':4,5]thieno[2,3-d]pyrimidin-11-yl)hydrazone (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



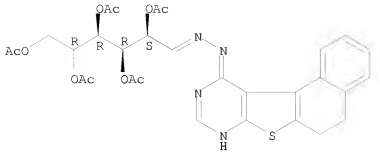
RN 913654-17-8 CAPLUS
CN D-Ribose, (5,6-dihydronaphtho[1',2':4,5]thieno[2,3-d]pyrimidin-11-yl)hydrazone (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



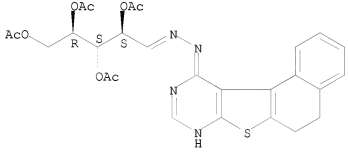
RN 913654-18-9 CAPLUS
CN D-Glucose, (5,6-dihydronaphtho[1',2':4,5]thieno[2,3-d]pyrimidin-11-yl)hydrazone, 2,3,4,5,6-pentaacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RN 913654-19-0 CAPLUS
CN D-Ribose, (5,6-dihydronaphtho[1',2':4,5]thieno[2,3-d]pyrimidin-11-yl)hydrazone, 2,3,4,5-tetraacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 11 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN

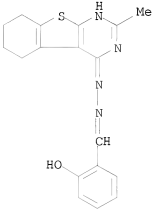
ACCESSION NUMBER:	2006:58100 CAPLUS
DOCUMENT NUMBER:	144:169467
TITLE:	Chemical inhibitors of TNF signal transduction in human neutrophils point to distinct steps in cell activation
AUTHOR(S):	Han, Hyunsil; Roberts, Julia; Lou, Olivia; Muller, Willam A.; Nathan, Noah; Nathan, Carl
CORPORATE SOURCE:	Departments of Microbiology and Immunology, Weill Medical College of Cornell University, New York, NY, USA
SOURCE:	Journal of Leukocyte Biology (2006), 79(1), 147-154 CODEN: JLBIE7; ISSN: 0741-5400
PUBLISHER:	Federation of American Societies for Experimental Biology
DOCUMENT TYPE:	Journal
LANGUAGE:	English

AB Chemical screening identified three small compds. that selectively inhibited activation of the respiratory burst (RB) of human neutrophils in response to tumor necrosis factor (TNF) and formylated peptide but not phorbol ester and spared the ability of neutrophils to kill bacteria. These compds. partially inhibited TNF-triggered cytoskeletal rearrangements without blocking adhesion or transmigration of polymorphonuclear neutrophils through TNF-activated monolayers of endothelial cells. The compds. were nontoxic to neutrophils and endothelial cells. They had no

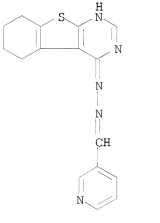
direct inhibitory effect on the tyrosine kinases Src, Syk, or Pyk2. However, their differential effects on cell spreading, bacteria-induced RB, TNF-induced degranulation, TNF-induced protein tyrosine phosphorylation, and TNF-induced Syk activation suggested that each may act on different elements of neutrophil signaling pathways.

IT 298208-03-4 301326-51-2
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(chemical inhibitors of TNF signal transduction in human neutrophils point to distinct steps in cell activation)

RN 298208-03-4 CAPLUS
CN Benzaldehyde, 2-hydroxy-, 2-(5,6,7,8-tetrahydro-2-methyl[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazone (CA INDEX NAME)



RN 301326-51-2 CAPLUS
CN 3-Pyridinecarboxaldehyde, 2-(5,6,7,8-tetrahydro[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazone (CA INDEX NAME)



REFERENCE COUNT: 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 12 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2005:369234 CAPLUS
DOCUMENT NUMBER: 142:404249
TITLE: Treating an inflammatory disorder or inhibiting respiratory burst in adherent neutrophils with chemical inhibitors of neutrophil activation

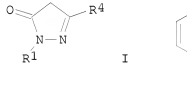
INVENTOR(S): Han, Hyunsil; Lin, Gang; Nathan, Carl F.
PATENT ASSIGNEE(S): Cornell Research Foundation, Inc., USA
SOURCE: PCT Int. Appl., 77 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005037213	A2	20050428	WO 2004-US33914	20041014
WO 2005037213	A3	20060713		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 20070021448	A1	20070125	US 2006-575683	20060831
PRIORITY APPLN. INFO.:			US 2003-510843P	P 20031014
			WO 2004-US33914	W 20041014

OTHER SOURCE(S): MARPAT 142:404249
GI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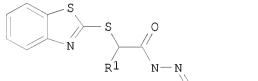
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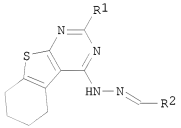
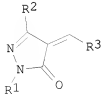

III


IV

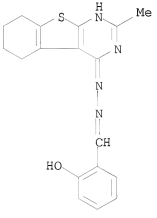

V

AB The present invention relates to a method of treating an inflammatory disorder in a subject with an effective amount of compound having the general formula I-V as described in the present application, under conditions

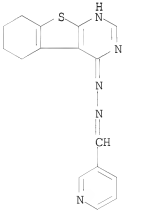
effective to treat the inflammatory disorder. The present invention also relates to a method of inhibiting respiratory burst in neutrophils without inhibiting degranulation in or bacterial killing by the neutrophils by contacting neutrophils with the compds. described above. A combinatorial library of 15,000 compds. was screened for specific inhibitors of TNF- and PMA-triggered H2O2 release by primary human neutrophils. A small number of compds. were identified as capable of inhibiting TNF-triggered respiratory burst, as measured by H2O2 release, without inhibiting PMA-triggered respiratory burst.

IT 298208-03-4 301326-51-2
RL: BSU (Biological study, unclassified); CST (Combinatorial study, unclassified); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); CMBI (Combinatorial study); USES (Uses)
(treatment of inflammatory disorder or inhibition of respiratory burst in adherent neutrophils with chemical inhibitors of neutrophil activation)

RN 298208-03-4 CAPLUS
CN Benzaldehyde, 2-hydroxy-, 2-(5,6,7,8-tetrahydro-2-methyl[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazone (CA INDEX NAME)



RN 301326-51-2 CAPLUS
CN 3-Pyridinecarboxaldehyde, 2-(5,6,7,8-tetrahydro[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazone (CA INDEX NAME)

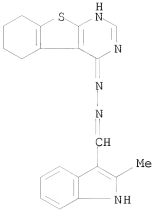


REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 13 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2005:324289 CAPLUS
DOCUMENT NUMBER: 142:367707
TITLE: Hedgehog pathway antagonists for treatment of proliferative disorders
INVENTOR(S): Beachy, Philip A.; Chen, James K.; Taipale, Anssi J.
PATENT ASSIGNEE(S): The Johns Hopkins University, USA
SOURCE: PCT Int. Appl., 129 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005033288	A2	20050414	WO 2004-US32482	20040929
WO 2005033288	A3	20051013		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 20070232661	A1	20071004	US 2007-573945	20070307
PRIORITY APPLN. INFO.:			US 2003-507164P	P 20030929
			WO 2004-US32482	W 20040929

OTHER SOURCE(S): MARPAT 142:367707
AB Aromatic compds. for treating various diseases and pathologies are disclosed. The methods for use of such compds. are also provided. Accordingly, the present invention makes available methods and comps. for inhibiting aberrant growth states resulting from hedgehog gain-of-function, ptc loss-of-function or smoothened gain-of-function.
IT 441742-93-4
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(aromatic compds. for treatment of cell proliferative disorders by inhibiting hedgehog signaling)
RN 441742-93-4 CAPLUS
CN 1H-Indole-3-carboxaldehyde, 2-methyl-, 2-(5,6,7,8-tetrahydro[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazone (CA INDEX NAME)



L17 ANSWER 14 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER:	2004:571018 CAPLUS
DOCUMENT NUMBER:	141:390506
TITLE:	Chemical genetic screening identifies sulfonamides that raise organellar pH and interfere with membrane traffic
AUTHOR(S):	Nieland, Thomas J. F.; Feng, Yan; Brown, Jing Xu; Chuang, Tuan Daniel; Buckett, Peter D.; Wang, Jin; Xie, Xiao-Song; McGraw, Timothy E.; Kirchhausen, Tomas; Wessling-Resnick, Marianne
CORPORATE SOURCE:	Department of Cell Biology and The CBR Institute for Biomedical Research, Harvard Medical School, Boston, MA, 02115, USA
SOURCE:	Traffic (Oxford, United Kingdom) (2004), 5(7), 478-492 CODEN: TRAFFA; ISSN: 1398-9219
PUBLISHER:	Blackwell Publishing Ltd.
DOCUMENT TYPE:	Journal
LANGUAGE:	English

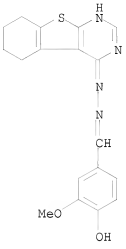
AB Chemical genetics seeks to identify small mols. that afford functional dissection of cell biol. pathways. Previous screens for small mol. inhibitors of exocytic membrane traffic yielded the identification and characterization of several compds. that block traffic from the Golgi to the cell surface as well as transport from the endoplasmic reticulum to the Golgi network. Here, we screened these inhibitors for potential effects on endocytic membrane traffic. Two structurally related sulfonamides were potent and reversible inhibitors of transferrin-mediated iron uptake. These inhibitors do not block endoplasmic reticulum-to-Golgi transport, but do disrupt Golgi-to-cell surface traffic. The compds. are members of a novel class of sulfonamides that elevate endosomal and lysosomal pH, down-regulate cell surface receptors, and impair recycling of internalized transferrin receptors to the plasma membrane. In vitro expts. revealed that the sulfonamides directly inhibit ATP hydrolysis by the V-ATPase and that they also possess a potent proton ionophore activity. While maintenance of organellar pH is known to be a critical factor in both endocytosis and exocytosis, the precise role of acidification, beyond the uncoupling of ligands from their receptors, remains largely unknown. Identification of this novel class of sulfonamide inhibitors provides new chemical tools to better understand the function of organelle pH in membrane traffic and the activity of V-ATPases in particular.

IT 304684-77-3

RL: BSU (Biological study, unclassified); BIOL (Biological study)

(sulfonamides that raise organellar pH and interfere with membrane

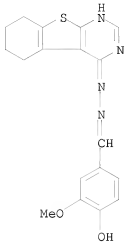
traffic)
RN 304684-77-3 CAPLUS
CN Benzaldehyde, 4-hydroxy-3-methoxy-, 2-(5,6,7,8-tetrahydro[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazone (CA INDEX NAME)



REFERENCE COUNT: 49 THERE ARE 49 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 15 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2004:442807 CAPLUS
DOCUMENT NUMBER: 141:135501
TITLE: Retrograde transport of cholera toxin from the plasma membrane to the endoplasmic reticulum requires the trans-Golgi network but not the Golgi apparatus in Exo2-treated cells
AUTHOR(S): Feng, Yan; Jadhav, Ashutosh P.; Rodighiero, Chiara; Fujinaga, Yukako; Kirchhausen, Tomas; Lencer, Wayne I.
CORPORATE SOURCE: Department of Cell Biology, Institute of Chemistry and Cell Biology, Harvard Medical School, Boston, MA, 02115, USA
SOURCE: EMBO Reports (2004), 5(6), 596-601
CODEN: ERMEAX; ISSN: 1469-221X
PUBLISHER: Nature Publishing Group
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Cholera toxin (CT) follows a glycolipid-dependent entry pathway from the plasma membrane through the trans-Golgi network (TGN) to the endoplasmic reticulum (ER) where it is retro-translocated into the cytosol to induce toxicity. Whether access to the Golgi apparatus is necessary for transport to the ER is not known. Exo2 is a small chemical that rapidly blocks anterograde traffic from the ER to the Golgi and selectively disrupts the Golgi apparatus but not the TGN. Here we use Exo2 to determine the role of the Golgi apparatus in CT trafficking. We find that under the condition of complete Golgi ablation by Exo2, CT reaches the TGN and moves efficiently into the ER without loss in toxicity. We propose that even in the absence of Exo2 the glycolipid pathway that carries the toxin from plasma membrane into the ER bypasses the Golgi apparatus entirely.
IT 304684-77-3, Exo 2
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(retrograde transport of cholera toxin from plasma membrane to endoplasmic reticulum requires trans-Golgi network but not Golgi apparatus

in Exo2-treated cells)
RN 304684-77-3 CAPLUS
CN Benzaldehyde, 4-hydroxy-3-methoxy-, 2-(5,6,7,8-tetrahydro[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazone (CA INDEX NAME)



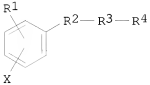
L17 ANSWER 16 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2003:570813 CAPLUS
DOCUMENT NUMBER: 139:113668
TITLE: β-secretase inhibitors for use in treatment of diseases caused by deposits of β-amyloid peptides
INVENTOR(S): Dietrich, Axel; Nimz, Olaf; Rester, Ulrich; Fecke, Wolfgang; Haemmerle, Marcus; Baier, Friedrich
PATENT ASSIGNEE(S): The Genetics Company Inc., Switz.
SOURCE: PCT Int. Appl., 42 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003059346	A1	20030724	WO 2003-EP504	20030120
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2473441	A1	20030724	CA 2003-2473441	20030120
AU 2003205630	A1	20030730	AU 2003-205630	20030120
EP 1467729	A1	20041020	EP 2003-702474	20030120
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2005516967	T	20050609	JP 2003-559508	20030120
US 20050239899	A1	20051027	US 2005-502075	20050418

PRIORITY APPLN. INFO.: EP 2002-1339 A 20020118
EP 2002-12566 A 20020605
WO 2003-EP504 W 20030120

OTHER SOURCE(S): MARPAT 139:113668

GI



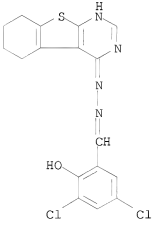
I

AB The invention relates to novel substituted halophenyl inhibitors of β-secretase (II, R1 = halo, hydroxy, cyano, trifluoromethyl, C1-4 substituted saturated or unsatd. alkyl, n = 0-4; X = halo, Me, trifluoromethyl; R2 = C1-8 alkyl containing at least one heteroatom and optionally unsatd.; R3 = aryl, carbocycle or heterocycle; R4 = R1 or a substituted aryl or heterocycle) and their use in treatment of diseases caused by deposits of β-amyloid, such as Alzheimer's disease. Thus, 7 compds. with IC50 10-170 μM in in vitro β-secretase assays are disclosed.

IT 312528-59-9
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(β-secretase inhibitors for use in treatment of diseases caused by deposits of β-amyloid peptides)

RN 312528-59-9 CAPLUS

CN Benzaldehyde, 3,5-dichloro-2-hydroxy-, 2-(5,6,7,8-tetrahydro[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazone (CA INDEX NAME)



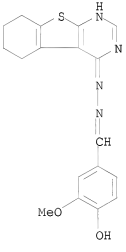
REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 17 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2003:395442 CAPLUS
DOCUMENT NUMBER: 139:270180
TITLE: Phenotypic screening of small molecule libraries by high throughput cell imaging

AUTHOR(S): Yarrow, J. C.; Feng, Y.; Perlman, Z. E.; Kirchhausen, T.; Mitchison, T. J.
CORPORATE SOURCE: Institute of Chemistry and Cell Biology, Harvard Medical School, Boston, MA, 02115, USA
SOURCE: Combinatorial Chemistry and High Throughput Screening (2003), 6(4), 279-286
CODEN: CCHSFU; ISSN: 1386-2073
PUBLISHER: Bentham Science Publishers Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB We have developed high throughput fluorescence cell imaging methods to screen chemical libraries for compds. with effects on diverse aspects of cell physiol. We describe screens for compds. that arrest cells in mitosis, that block cell migration, and that block the secretory pathway. Each of these screens yielded specific inhibitors for research use, and the mitosis screen identified Eg5 as a potential target protein for cancer chemotherapy. Cell imaging provides a large amount of information from primary screening data that can be used to distinguish compds. with different effects on cells, and together with automated anal., to quantitate compound effects.

IT 304684-77-3
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(phenotypic screening of small mol. libraries by high throughput cell imaging)
RN 304684-77-3 CAPLUS
CN Benzaldehyde, 4-hydroxy-3-methoxy-, 2-(5,6,7,8-tetrahydro[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazone (CA INDEX NAME)



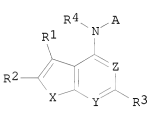
REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 18 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2002:504794 CAPLUS
DOCUMENT NUMBER: 137:63255
TITLE: Preparation of thieno[2,3-d]pyrimidine derivatives as cyclin-dependent kinase 4 (Cdk4) inhibitors having antitumor activity owing to cell cycle regulation
INVENTOR(S): Uoto, Kouichi; Horiuchi, Takao; Akabane, Kouichi; Takeda, Yasuyuki
PATENT ASSIGNEE(S): Daiichi Pharmaceutical Co., Ltd., Japan

SOURCE: PCT Int. Appl., 241 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002051849	A1	20020704	WO 2001-JP11354	20011225
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002216406	A1	20020708	AU 2002-216406	20011225
PRIORITY APPLN. INFO.:			JP 2000-394169	A 20001226
			WO 2001-JP11354	W 20011225

OTHER SOURCE(S): MARPAT 137:63255
GI



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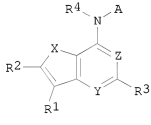
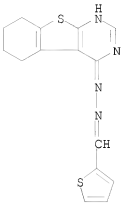


II

AB Compds. of the general formula (I) or (II) or salts thereof: [wherein X = S, O, NR5 (wherein R5 = H, alkyl); Y = N, CH; Z = N, CR6 (wherein R6 = H, halo, alkyl, etc.); R1, R2 = H, alkyl, alkoxy, alkenyl, alkynyl, aryl, aralkyl, acyl, mercapto, alkylthio, alkylsulfinyl, alkylsulfonyl, amino, mono- or dialkylamino, CONH2, mono- or dialkylcarbamoyl, or R1 and R2 are linked to each other to form an (un)substituted 3- to 7-membered hydrocarbon or heterocyclic ring; R3 = H, (un)substituted alkyl or aryl; R4 = H, (un)substituted alkyl; and A is a group represented by the general formula -N:CR7R8, Q, Q1 [wherein R7 = H, (un)substituted alkyl; R8 = (un)substituted alkyl, aryl, or heterocyclyl; ring B = aryl or heteroaryl ring condensed to cyclohexane ring]] are prepared Thus, to a solution of 6-tert-butyl-4-hydrazinothieno[2,3-d]pyrimidine ad in anhydrous benzene was added anhydrous Na2SO4 and heated at 100° with stirring for 2.5 h 1-(2-formylthiazol-4-ylmethyl)ethylcarbamic acid tert-Bu ester to give, after deprotection, 4-(1-aminoethyl)thiazole-2-carboxaldehyde N-[6-tert-butylthieno[2,3-d]pyrimidin-4-yl]hydrazone dihydrochloride (III). III showed IC50 of 0.019 and 0.83 μg/mL against Cdk4 and Cdk2, resp.

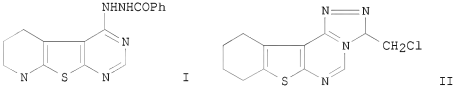
IT 81154-31-6P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of thieno[2,3-d]pyrimidine derivs. as cyclin-dependent kinase 4 (Cdk4) inhibitors having antitumor activity owing to cell cycle regulation)

RN 81154-31-6 CAPLUS
CN 2-Thiophenecarboxaldehyde, 2-(5,6,7,8-tetrahydro[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazone (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 19 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1995:883915 CAPLUS
DOCUMENT NUMBER: 123:329366
ORIGINAL REFERENCE NO.: 123:58769a,58772a
TITLE: Synthesis and antimicrobial activity of some tetramethyleneethieno[2,3-d]pyrimidine derivatives
AUTHOR(S): Ismail, Khadiga A.; Aboulwafa, Omaima M.; Koreish, Essam
CORPORATE SOURCE: Dep. Pharmaceutical Chemistry, Faculty Pharmacy, University Alexandria, Alexandria, Egypt
SOURCE: Farmaco (1995), 50(9), 611-16
CODEN: FRMCE8
PUBLISHER: Societa Chimica Italiana
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 123:329366
GI

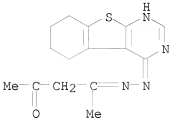


AB A series of tetramethyleneethieno[2,3-d]pyrimidine derivs. has been synthesized and tested for its antimicrobial properties. All the synthesized compds. were found to exhibit in vitro antibacterial and/or antifungal activity. The highest activity was elicited by 4-benzohydrazino-5,6-tetramethyleneethieno[2,3-d]pyrimidine (I) showing MIC value of 7.81 μg/mL against E. Coli and C. albicans, while its MBC value was half that of nystatin. Compound II was almost as potent as nystatin, exhibiting a min. bactericidal concentration (MBC) value of 15.62 μg/mL.
IT 170382-36-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(tetramethyleneethienopyrimidine derivative preparation and antimicrobial activity)

RN 170382-36-2 CAPLUS

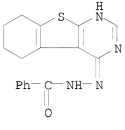
CN 2,4-Pentanedione, 2-[2-(5,6,7,8-tetrahydro[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazone] (CA INDEX NAME)



IT 170382-28-2P 170382-29-3P 170382-30-6P
170382-32-8P 170382-37-3P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(tetramethyleneethienopyrimidine derivative preparation and antimicrobial activity)

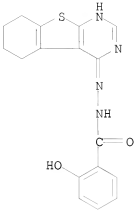
RN 170382-28-2 CAPLUS

CN Benzoic acid, 2-(5,6,7,8-tetrahydro[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazide (CA INDEX NAME)

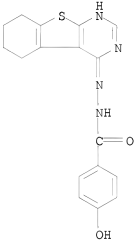


RN 170382-29-3 CAPLUS

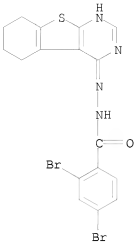
CN Benzoic acid, 2-hydroxy-, 2-(5,6,7,8-tetrahydro[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazide (CA INDEX NAME)



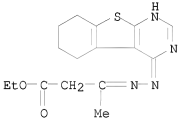
RN 170382-30-6 CAPLUS
CN Benzoic acid, 4-hydroxy-, 2-(5,6,7,8-tetrahydro[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazide (CA INDEX NAME)



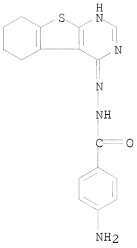
RN 170382-32-8 CAPLUS
CN Benzoic acid, 2,4-dibromo-, 2-(5,6,7,8-tetrahydro[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazide (CA INDEX NAME)



RN 170382-37-3 CAPLUS
CN Butanoic acid, 3-[2-(5,6,7,8-tetrahydro[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazinylidene]-, ethyl ester (CA INDEX NAME)



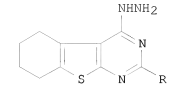
IT 170382-31-7P
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(tetramethyleneethienopyrimidine derivative preparation and antimicrobial activity)
RN 170382-31-7 CAPLUS
CN Benzoic acid, 4-amino-, 2-(5,6,7,8-tetrahydro[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazide (CA INDEX NAME)



L17 ANSWER 20 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER:	1995:292065 CAPLUS
DOCUMENT NUMBER:	122:133103
ORIGINAL REFERENCE NO.:	122:24823a,24826a
TITLE:	Synthesis of certain thienopyrimidines of anticipated analgesic activity
AUTHOR(S):	Moneer, A. A.; Ismail, M. Mhsen.; Osman, A. N.; El-Fattah, B. Abd; Ghoneim, K. M.
CORPORATE SOURCE:	Faculty Pharmacy, Cairo University, Cairo, Egypt
SOURCE:	Egyptian Journal of Pharmaceutical Sciences (1994), Volume Date 1993, 34(4-6), 623-41 CODEN: EJPSBZ; ISSN: 0301-5068
PUBLISHER:	National Information and Documentation Centre
DOCUMENT TYPE:	Journal
LANGUAGE:	English

GI



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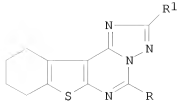
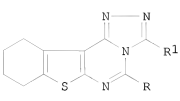


II



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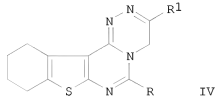

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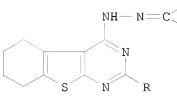

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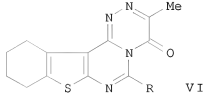


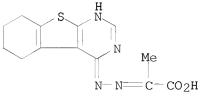
VI

AB Hydrazinothienopyrimidines I (R = H, Me, benzyl) were prepared using reported procedures. Reaction of I with acid chlorides, acetic anhydride or carbon disulfide afforded triazolothienopyrimidines II (R = same as above; R1 = SH, Ph, Me, o-, m-, p-ClC6H4, o-, p-BrC6H4, p-O2NC6H4). On the other hand, conversion of I into Schiff bases followed by cyclization with bromine in acetic acid on cold and on hot produced the triazolothienopyrimidines III and II, resp. Reaction of I with α-bromoketones yielded the thienopyrimidotriazines IV. Conversely, when pyruvic acid was introduced to react with I the open hydrazones V rather than the expected cyclic structures VI were produced. The new compds. exhibited analgesic activity half that of aspirin.

IT 160887-39-8P 160887-40-1P 160887-41-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

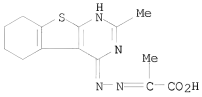
RN 160887-39-8 CAPLUS

CN Propanoic acid, 2-[2-(5,6,7,8-tetrahydro[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazinylidene]- (CA INDEX NAME)

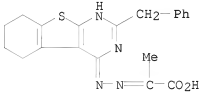


RN 160887-40-1 CAPLUS

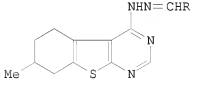
CN Propanoic acid, 2-[2-(5,6,7,8-tetrahydro-2-methyl[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazinylidene]- (CA INDEX NAME)



RN 160887-41-2 CAPLUS
CN Propanoic acid, 2-[2-[5,6,7,8-tetrahydro-2-(phenylmethyl)[1]benzothieno[2,3-d]pyrimidin-4-yl]hydrazinylidene]- (CA INDEX NAME)



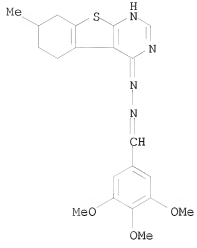
L17 ANSWER 21 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1991:656112 CAPLUS
DOCUMENT NUMBER: 115:256112
ORIGINAL REFERENCE NO.: 115:43549a,43552a
TITLE: Synthesis of 7-methyl-4-substituted-5,6,7,8-tetrahydrobenzo[b]thieno[2,3-d]pyrimidines as antimicrobial agents
AUTHOR(S): Patil, C. D.; Sadana, G. S.; Deodhar, K. D.
CORPORATE SOURCE: Dep. Chem., G. N. Khalsa Coll., Bombay, 400 019, India
SOURCE: Journal of the Indian Chemical Society (1991), 68(3), 169-71
CODEN: JICSAH; ISSN: 0019-4522
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 115:256112
GI



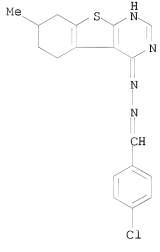
I

AB Title tetrahydrobenzothienopyrimidines, e.g. I (C6H4Cl-4, C6H4NO2-2, C6H4CN-4), were prepared and their antibacterial activities were discussed.
IT 137438-25-6P 137438-26-7P 137438-27-8P
137438-28-9P 137438-29-0P 137438-30-3P
137438-31-4P 137438-32-5P 137438-33-6P
137438-34-7P 137438-35-8P 137438-36-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of)

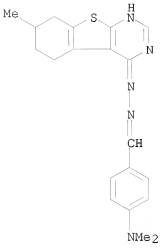
RN 137438-25-6 CAPLUS
CN Benzaldehyde, 3,4,5-trimethoxy-, 2-(5,6,7,8-tetrahydro-7-methyl[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazone (CA INDEX NAME)



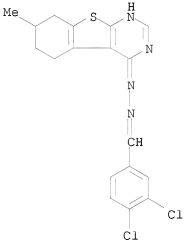
RN 137438-26-7 CAPLUS
CN Benzaldehyde, 4-chloro-, 2-(5,6,7,8-tetrahydro-7-methyl[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazone (CA INDEX NAME)



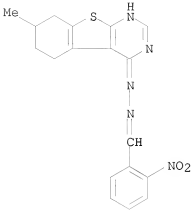
RN 137438-27-8 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, 2-(5,6,7,8-tetrahydro-7-methyl[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazone (CA INDEX NAME)



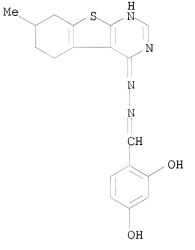
RN 137438-28-9 CAPLUS
CN Benzaldehyde, 3,4-dichloro-, 2-(5,6,7,8-tetrahydro-7-methyl[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazone (CA INDEX NAME)



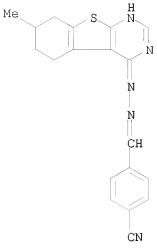
RN 137438-29-0 CAPLUS
CN Benzaldehyde, 2-nitro-, 2-(5,6,7,8-tetrahydro-7-methyl[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazone (CA INDEX NAME)



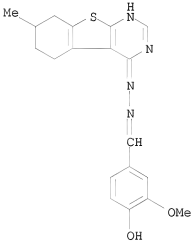
RN 137438-30-3 CAPLUS
CN Benzaldehyde, 2,4-dihydroxy-, 2-(5,6,7,8-tetrahydro-7-methyl[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazone (CA INDEX NAME)



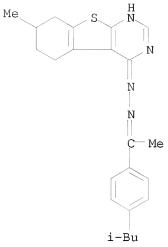
RN 137438-31-4 CAPLUS
CN Benzonitrile, 4-[[2-(5,6,7,8-tetrahydro-7-methyl[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazinylidene]methyl]- (CA INDEX NAME)



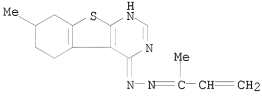
RN 137438-32-5 CAPLUS
CN Benzaldehyde, 4-hydroxy-3-methoxy-,
2-(5,6,7,8-tetrahydro-7-methyl[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazone (CA INDEX NAME)



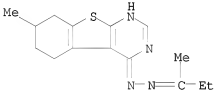
RN 137438-33-6 CAPLUS
CN Ethanone, 1-[4-(2-methylpropyl)phenyl]-,
2-(5,6,7,8-tetrahydro-7-methyl[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazone (CA INDEX NAME)



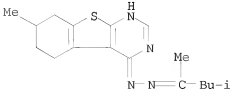
RN 137438-34-7 CAPLUS
CN 3-Buten-2-one, 2-(5,6,7,8-tetrahydro-7-methyl[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazone (CA INDEX NAME)



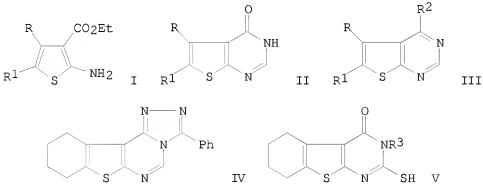
RN 137438-35-8 CAPLUS
CN 2-Butanone, 2-(5,6,7,8-tetrahydro-7-methyl[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazone (CA INDEX NAME)



RN 137438-36-9 CAPLUS
CN 2-Pentanone, 4-methyl-, 2-(5,6,7,8-tetrahydro-7-methyl[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazone (CA INDEX NAME)



L17 ANSWER 22 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1982:122732 CAPLUS
DOCUMENT NUMBER: 96:122732
ORIGINAL REFERENCE NO.: 96:20157a,20160a
TITLE: Thieno[2,3-d]pyrimidines as potential chemotherapeutic agents. II
AUTHOR(S): Ram, Vishnu J.; Pandey, Hrishi Kesh; Vlietinck, Arnold J.
CORPORATE SOURCE: Dep. Chem., S. C. Coll., Ballia, India
SOURCE: Journal of Heterocyclic Chemistry (1981), 18(7), 1277-80
CODEN: JHTCAD; ISSN: 0022-152X
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 96:122732
GI

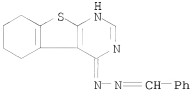


AB The thiophenecarboxylate I [RR1 = (CH2)4; R = H, R1 = Et] were cyclized with HCONH2 to give the thienopyrimidinones II, which were chlorinated and the thienopyrimidines III (R2 = Cl) aminated to give III (R3 = substituted anilines). III [RR1 = (CH2)4, R2 = Cl] was treated with H2NNH2 followed by PhCHO to give III [RR1 = (CH2)4, R2 = PhCH:NNH], which underwent cyclization to give the triazolopyrimidinobenzothiophene IV. I [RR1 = (CH2)4] was cyclized with R3NCS (R3 = Ph, PhCH2) to give the thienopyrimidines V, which were converted to the S-alkyl derivs. III [RR1 = (CH2)4, R2 = 2-oxo-3-pyrrolidinylmethylenehydrazino] showed some herbicidal activity against velvet leaf (20%).

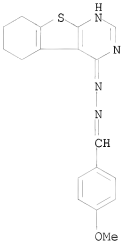
IT 81154-29-2P 81154-30-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of)

RN 81154-29-2 CAPLUS

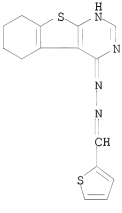
CN Benzaldehyde, 2-(5,6,7,8-tetrahydro[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazone (CA INDEX NAME)



RN 81154-30-5 CAPLUS
CN Benzaldehyde, 4-methoxy-, 2-(5,6,7,8-tetrahydro[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazone (CA INDEX NAME)

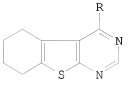


IT 81154-31-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 81154-31-6 CAPLUS
CN 2-Thiophenecarboxaldehyde, 2-(5,6,7,8-tetrahydro[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazone (CA INDEX NAME)

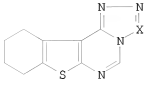


L17 ANSWER 23 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1979:186894 CAPLUS
DOCUMENT NUMBER: 90:186894
ORIGINAL REFERENCE NO.: 90:29697a,29700a
TITLE: Thieno[2,3-d]pyrimidines as potential chemotherapeutic agents
AUTHOR(S): Ram, Vishnu Ji
CORPORATE SOURCE: Dep. Chem., S. C. Coll., Ballia, India
SOURCE: Archiv der Pharmazie (Weinheim, Germany) (1979), 312(1), 19-25
CODEN: ARPMAS; ISSN: 0365-6233
DOCUMENT TYPE: Journal

LANGUAGE: English
OTHER SOURCE(S): CASREACT 90:186894
GI



I



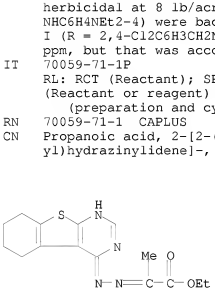
II

AB Thienopyrimidines I (R = Cl, SH, NHNH2, pyrrolidinoethylamino, morpholinopropylamino, HOCH2CH2NH, (HOCH2CH2)2N, 2-ClC6H4CH2NH, 4-ClC6H4CH2NH, 2,4-Cl2C6H3CH2NH, 2-FC6H4NH, 3-FC6H4NH, 4-FC6H4NH, 4-Et2NC6H4NH, piperidino, OEt, morpholino), II (X = N, CH, CSH, CMeCO), and related compds. were prepared from 4-oxo-5,6,7,8-tetrahydrothianaphtheno[2,3-d]pyrimidine. I (R = Cl) were herbicidal at 8 lb/acre. I (R = SH, NHNH2, NHC6H4F-2, NHC6H4F-3, NHC6H4NEt2-4) were bactericidal against Streptococcus fecales at 64 ppm. I (R = 2,4-Cl2C6H3CH2NH, 2-FC6H4NH) were fungicidal against Pythium at 64 ppm, but that was accompanied by phytotoxicity.

IT 70059-71-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of)

RN 70059-71-1 CAPLUS

CN Propanoic acid, 2-[2-(5,6,7,8-tetrahydro[1]benzothieno[2,3-d]pyrimidin-4-yl)hydrazinylidene]-, ethyl ester (CA INDEX NAME)



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FULL ESTIMATED COST	130.72	910.56
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-18.86	-18.86

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L2             0 S US 20070021448/PN

     FILE 'CAPLUS' ENTERED AT 11:03:21 ON 27 MAR 2009
L3             1 S US 20070021448/PN
                 SEL RN

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L10              STRUCTURE UPLOADED
L11            0 S L10 FULL
L12              STRUCTURE UPLOADED
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L14            0 S L13

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L16          353 S L15 FULL

     FILE 'CAPLUS' ENTERED AT 11:32:08 ON 27 MAR 2009
L17           23 S L16

     FILE 'STNGUIDE' ENTERED AT 11:33:18 ON 27 MAR 2009

=> d cost
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NETWORK CHARGES                                         0.70       3.01
SEARCH CHARGES                                          0.00     756.78
DISPLAY CHARGES                                         0.00     138.02
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FULL ESTIMATED COST                                     0.70     911.26

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
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CA SUBSCRIBER PRICE                                     0.00     -18.86

IN FILE 'STNGUIDE' AT 11:39:16 ON 27 MAR 2009


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